

**Figure 1**

MPGIVVFRRRWSVGSDDLVLPAIFLFLLHTTWFVILSVVLFGLVYNPHEACSLNLVDHGRGYLGILLSCMIAEMA  
IIWLSMRGGILYTEPRDSMQYVLYVRLAILVIEFIYAIVGIVWLTQYYTSCNDLTAKNVTLMVVCNWVILSVC  
ITVLCVFDPTGRTFVKLRATKRRQRNLRTYNLRHLEEGQATWSRRLKVFLCCTRTKDSQSDAYSEIAYLFAEF  
FRDLDIVPSDIIAGLVLLRQRQRAKRNAVLDEANNDILAFLSGMPVTRNTKYLDLKNSQEMLRYKEVCYYMLFAL  
AAYGWPMYLMRKACGLCQLARSCSCCLCPARPRFAPGVТИEDNCCGCNAIAIRRHFLDENMTAVDIVYTSCHD  
AVYETPFYVAVDHDKKKVVISIRGTLSPKDALTGDAERLPVEGHGTWLGHKGWVLSAEYIKKLEQEMVLS  
QAFGRDLGRGTKHYGLIVVGHSLGAGTAAILSFLLRPQYPTLKCFAYSPPGGLLSEDAMEYSKEFVTAVVLGKDL  
VPRIGLSQLEGFRRQLLDVLQRSTPKWRIIVGATKCIPKSELPEEVEVTTLASTRLWTHPSDLTIALSASTPLY  
PPGRIIHVVHNHPAEQCCCEQEEPTYFAIWGDNKAFNEVIISPAHLHEHLPYVMEGLNKVLENYNKGKTALLS  
AAKVMVSPTEVDLTPELIFQQQPLPTGPPMPTGLALELPTADHRNSSVRSKSQSEMSLEGFSEGRLLSPVAAAA  
RQDPVELLLSTQERLAAELQARRAPLATMESLSDTESLYSFDSRRSSGFRSIRGSPSLHAVLERDEGHLFYIDP  
AIPEENPSLSSRTELLAADSLSKHSQDTQPLEAALGSGGVTPERPPSAAANDEEEEVGGGGGPASRGELALHNG  
RLGDSPPSPQVLEFAEFIDSLFNLDKSSSFQDLYCMVVPESPTSDYAEGPKSPSQQEILLRAQFEPNLVPKPPRL  
FAGSADPSSGISLSPSFPLSSGELMDLPTGLSSQECLAADKIRTSTPTGHGASPAKQDELVISAR

**Figure 2**

1 ggccttgggg agcccaggat ggaggtggcg gtcgcggcgg cgggcccggc cctgcggcgg  
 61 gcgggaggag gtgagcacca gccccactga gcctctgcag agccaccaggc catgcccggg  
 121 atcgtggtgt tccggcggcg ctggctgtg ggcagtgtatg acctcgctt accagccatc  
 181 ttcccttttc tcctgcatac cacctggttt gtgatctgtt ccgtgggtgt cttcggcctg  
 241 gtctataacc cgcacggaggc ctgctccctg aacctgggtt accacggccg cggctacctg  
 301 ggcataatgc tgagctgtat gatcgctgat atggccatca tctggctgtat catgcggcgg  
 361 ggcataatgc acacggaggcc cctgtactcc atgcagtacg tgctctacgt ggcctggcc  
 421 atccctggta tcgagttcat ctacgcacatc gtgggcacatcg tctggctcac tcagtactac  
 481 acctcctgca acgcacccatc tgccaagaat gtcacccatcg gaatgggtgt ctgcaactgg  
 541 gtagtcatcc tcagtgtgtat catcaatgtc ctctgcgtct tcgacccac gggccgcacc  
 601 ttgtcaatc tgagagccac caagaggaggc cagcgtaccc tgcggacatca caacctgcgg  
 661 caccgccttag aggagggtca agccaccaggc tggtcgcgc ggctcaaaatg gttcctctgc  
 721 tgcacgcggc cgaaggactc ccagtcatat gcctactatc aaatgcctta cctctttgcg  
 781 gagttcttcc gggaccttgc cattgtgcac tccgcacatca ttgtggcctt ggtgtgtc  
 841 cggcagccggc agcggggccaa ggcacacccatcg gtgctggacg aggcaaaatc tgacatcttgc  
 901 gccttcctgt ctggatgtcc ggtgaccaga aacaccaatg acctcgacatc caagaattca  
 961 caagagatgc tccgcataaa agaggatctgc tactacatgc tctttgcctt ggctgcctac  
 1021 ggggtggccca tgcgttgcgtat ggcggacatcg gcctgcggcc tctgcacatc ggctcggtcc  
 1081 tgctcggttt gcctgtgtcc tgcgaggccg cgggtcgccc ctggagtcac catcgaggaa  
 1141 gacaactgtat gtcgtgtatc tgccattgtcc atccggcgc acatccctggc cgagaacatg  
 1201 actgcgggtt acatgtctt tacctcctgc catgtgcgg totatgaaac gccccttac  
 1261 gtggcgggtt accatgacaa gaagaaatgt gtgatcgatc tccgggggac cctgtcccc  
 1321 aaggatgccc tgactgacatc gacgggtat gctgacgcgc tcccccgttgc ggggcaccac  
 1381 ggcacctggc tggccacaa ggtatggc ctctcagatc agtacatcaa gaagaaactg  
 1441 gagcaggaga tggcgttgc ccaggccctt gggcgagacc tggccggcg aaccaaaacac  
 1501 tacggccttgc ttgtggggcc ccactccctg ggcgcggca ctgctgcacat cctctcccttgc  
 1561 cttctgcgc acatgtatcc gaccctcaatc tgcttgcctt acatccccgc agggggcctg  
 1621 ctgagtgtt atgcaatggc gtattccaaatc gagttcgttgc ctgctgtgtt tctggcaaa  
 1681 gacctcgcc ccaggattgg cctctctcgtat ctggaaggatc tccgcagaca gctcctggat  
 1741 gtcctgcagc gaagcaccaaa gccccaaatgg cggatcatcg tggggggccac caaatgcac  
 1801 cccaaatgcgg agctgccttgc ggaggtatggat gtcggccaccc tggccagcac gcccgttgc  
 1861 accccacccca ggcacctaactat gtcggccatc tcagccatcg ctccactcta cccgcggc  
 1921 cgcacatcc acgtggtcca caaccacccatcg gcaatgcgtat gtcgtgtatc tgagcaggag  
 1981 gagccacat acatccatcg ctggggcgcac aacaaggccatc tcaatgaggat gatcatctgc  
 2041 ccagccatgc tgcgttgcac cctgccttat gtggcatgg aggggcttcaaa caaggtgttgc  
 2101 gagaactaca acaaggggaa gaccgtctgc ctctctgcgtat ccaaggtcat ggtgagccct  
 2161 accgagggtgg acctgtactcc tgagctcatc ttccagcagc agccactccc cacggggccg  
 2221 cccatgccttgc ctggcccttgc cctggatgtat cccactgcgtatc accaccgcac cagcagcgtc  
 2281 aggagcaatc cccatgtatc gatgagctgc gagggttctt cggagggccg gctgctgtcg  
 2341 ccagtggttgc cggcggccggc cccgcggac cccgtggatc tgctgtgtat gtcctaccatc  
 2401 gagcggctgg cggcggaggatc gcaaggcccg cggccaccac tggccaccatc ggagggccctc  
 2461 tcggacactg agtccctgtat cagttcgtatc tcgcggccgtt cctcaggatc cccgcacatc  
 2521 cggggctccca ccagccatcc cgcgtgtatc gagggtgtatc aaggccatc cttctacatt  
 2581 gacccatccatc tcccccgttgc aaacccatcc ctgagctgc gcaatgcgtat gtcggccggc  
 2641 gacagccatc ccaagacatc acaggacacg cagccctgg agggccctt gggcagtgcc  
 2701 ggcgtcaatc ctgagcggcc ccccaatgc ggcgcacatc acggaggatc agaggttggc  
 2761 ggtgggggtt gggggccggc cttccgcggc gaggctggatc tgcacaatgg ggcctgggg  
 2821 gactcgccca gtcctcaggatc gtcggatccatc ggcgttgcac gcttcaacccatc  
 2881 gacagcaaga gcaatgcctt ccaagacatc tactgcgtatc tgggtggccgc gggccaccac

**Figure 2 (continued)**

2941 agtgactacg ctgagggccc caagtccccc agccagcaag agatcctgct ccgtgcccag  
 3001 ttcgagccca acctggcgcc caagccccc cggcttttgc cggctcagc cgaccctcc  
 3061 tcgggcacatct cactctcgcc ctccctcccg ctcagctcct cgggtgagct catggacactg  
 3121 acgcccacgg gcctcagtag ccaggaatgc ctggccgctg acaagatccg gacttctacc  
 3181 cccactggcc acggagccag ccccgccaaag caagatgagc tggctatctc agcacgcTAG  
 3241 caccggcattt gctggccag cccggccag gcaggagcag gtggccctgt gggcacctgg  
 3301 tgcctgcccc ctgcggggca gctttaaagga cagaccccca ggggcagttt agcctcaggc  
 3361 acaggcatcg ctgtgagct ggggtccgc atccctacact cagcttagga ccccccagagc  
 3421 caaggtggct gggatctggc cccacagatg gggaaagatg gggaaagggtg tggagtgccc  
 3481 aggagcctgg gcagcctgct ggggtggccca cactcagcct gactgcctc catggggca  
 3541 ttctggcacc ccctgctcca ggacaggcga tggcaagct gcctccatc actgcctgct  
 3601 ggctgcttc ccaggggcca ggtgtaaaga gcagtcccccc cccacatcg tattctcatc  
 3661 tgggtccag gccggcatacg tcctggccac ccccccagatc tgggtgcctgc tggccggccc  
 3721 cctgggggtgc ccctggccag gtggcctgca gtgctgtaca tggttacaga agctgctgg  
 3781 ctggctcag gatgtttctt gggcttgcgg gccccccggcc caatcatgtt ttcagtagcc  
 3841 gtccctctgag cagggccaa ggcagccagg ggcctggagg ggccagagga ggggtgggtc  
 3901 agggccggccc cttctctgcc ttgtgcctt catgctgcct cctctgccc tgggtcctgg  
 3961 gcacccagggc ctgcctgccc tgctggctac ttccctggctt accttctacc cccaaaggatc  
 4021 ctcaccaccc aaagggtggt gggcactgct gtgaccacccc cagctgcaga gtcagtgccc  
 4081 tgggtggaaag gaaggcactg agagccccc tccctctgagg gcccacaccc accccttgg  
 4141 gtcaccccca ccacgcctag gcagctctgg gcccctggat ctggaaaccaa cacacccctg  
 4201 ttccccctcag cttttccctcc tcgctggcct gggcacccctc ctgggagcag gccttcctcc  
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 4321 tggctggaga cctctgtcca ctgcccaggg agggggctgg ggctggggcag agtccccgg  
 4381 tagcctgagg tccccatagg gtttccccc ctgctgggtt tgggaagcag ttagggagat  
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 4501 atgcatgtgc atgagtgtgc accgttccca aggaaggggc ctctgggct gcccaccccta  
 4561 cctgcccctgc ctgcctgctg cccctcccaag cctgccaaga aaacggtagg ggagcatgat  
 4621 ggggccttttggaggcagggtc gcaggacaaa gctcagctttt aggacccatc tggccatc  
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 4801 ctgcagcctc cctgggtggc ctggctccc cccaccaaga gacccctc tcattgtac  
 4861 tggtagctgg gggctgaat tctggccccc ggctccccac acagctggga ctggccctgg  
 4921 tggctgtcctt gggagccctt gcccacccctg acggagctgg gcccacccctc atcctctgt  
 4981 actccccgcct tcaccagact caaggacacc ctggccctgc tgaggcatac agagcttcag  
 5041 cccagcacag aagcaagaca aaatcagttt ctcttagagt ttagaaaaca agacagactc  
 5101 tcagatgaaa gatctgacaa gcaccgtggc cagtcacagg gagagacttg atgtctggcc  
 5161 ttttaattcc tcctctgcca ggggtgggtt tgggcacccatc aatgtggggca tggccatc  
 5221 cccaggacga gccatcaggc acagacccccc ccccccac gctgcagccca cccatgttt  
 5281 caggcttggg gctggggcag gcttgggcctc aatcctggc acccaggggc agccacccccc  
 5341 taacctgctt cctacccacc ttggcccttga aggatggcc tgctgcacgt ctccctcc  
 5401 caccacccatc cacactgggg ggtctgagcc accccccata gcccggatcg gctcagaccc  
 5461 accccccacccatc cccatccaga cctgcagcac aagtgcgcgg gcccacccctc ccaggccct  
 5521 gggcgactcc atatgcatac agtagcgcagc agccggggcc cacagacccatc catgcactt  
 5581 cttacgtgcc atttcccca gactttttt gttactaatg tatgaaagat cccaaactaat  
 5641 attgctgtaa aaaggagaga caaattaata tagcttatttc tataaat

Figure 3

